

Middle & High School Computer Science and Engineering Teacher

Donna Klein Jewish Academy, an independent non-profit school for children from Kindergarten through 12, is a Jewish community day school serving families from a broad spectrum of Jewish backgrounds and religious practices. The school was founded in 1979 and lives its mission: To educate our children and the greater DKJA community to be knowledgeable and responsible citizens of the world, committed to Jewish values and lifelong learning. The school is located within the vibrant, 100-acre campus of the Jewish Federation of South Palm Beach County. The largest Jewish campus in the country, concern for safety is paramount with 24-hour security.

The Donna Klein Jewish Academy Middle School and Claire and Emanuel G. Rosenblatt High School at Donna Klein Jewish Academy seeks an enthusiastic, innovative, and qualified full-time Computer Science and Engineering teacher for the 2024-2025 school year.

The ideal candidate for this role will be responsible for:

Curriculum Development

Design and develop lesson plans, projects, and activities that align with state and national standards for engineering education, including principles of engineering, computer-aided design (CAD), robotics, electrical circuits, programming microcontrollers, and utilizing simulation tools for modeling and analysis.

Teach students fundamental computer science concepts, programming languages (such as Java), algorithms, data structures, and problem-solving skills.

Design and develop a comprehensive curriculum that aligns with the AP Computer Science principles and AP Computer Science A course requirements. Create lesson plans, assignments, and assessments that meet the standards set by the College Board.

Digital Literacy:

Educate students on the fundamentals of digital literacy, including basic computer skills, internet safety, cybersecurity, digital citizenship, and responsible use of technology.

Computer Science:

Introduce students to fundamental concepts of computer science, such as algorithms, programming languages, computational thinking, and problem-solving skills. Offer opportunities for students to learn coding through languages like Python, Java, or Scratch.

Multimedia Production:

Teach students how to create multimedia content using digital tools and software, including graphic design, video editing, audio production, and website development. Encourage creativity and expression through multimedia projects.

STEM Integration:

Integrate STEM (Science, Technology, Engineering, and Mathematics) principles into the technology curriculum by incorporating interdisciplinary projects and activities that emphasize connections between technology and other fields.

Student Support:

Offer additional help and support to students who may be struggling with the material. Encourage and guide students in pursuing independent projects and exploration within the field of computer science.

Lab Management:

Oversee the engineering lab, ensuring it is properly equipped and maintained for safe and effective use by students. This may involve organizing materials, setting up equipment, and enforcing safety protocols.

Project-Based Learning: Emphasize project-based learning experiences where students work in teams to solve real-world engineering challenges. Guide students through the engineering design process, from problem identification to prototype development and testing.

Assessment and Feedback:

Evaluate student performance through assessments such as quizzes, tests, projects, and presentations. Provide constructive feedback to help students improve their understanding and skills in engineering concepts and practices.

Community Engagement:

Engage with the local community to promote awareness of the importance of engineering and technology education. This could involve organizing outreach events, participating in STEM fairs, or inviting guest speakers from industry to share their expertise with students.

The role as a middle and high school engineering and computer science teacher is not just to impart knowledge but also to foster creativity, critical thinking, problem-solving skills, and a passion for engineering among your students. By providing engaging and hands-on learning experiences, you can prepare them for future success in both higher education and careers in the field of engineering and computer science.

Qualified applicants must:

- Possess bachelor's or master's degree in computer science or a related field,
- Hold relevant teaching certification and have experience with AP Computer Science courses.
- Possess strong communication, organizational, and interpersonal skills

If interested please submit your resume to:

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